



SISTEM ZA NADZOR OMREŽJA

NETWORK MONITORING SYSTEM

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Povzetek

Na predstavitvi bomo predstavili sistem za nadzor omrežja, ki ga uporabljamo v Akademski mreži Srbije – AMRES. Sistem vsebuje dve spretni orodji, ki smo ju razvili sami. ICmyNet.IMS je narejen omrežni informacijski in nadzorni sistem, s katerim odkrivamo, zbiramo in omogočamo vse relevantne informacije o omrežju. Sistem omogoča aktivni in pasivni nadzor, zato imamo vedno na voljo zanesljive informacije o stanju infrastrukture, servisev in omrežnih naprav. Programska oprema ICmyNet.Flow pa je namenjena podrobnemu analiziranju prometa, na način, da iz omrežnih naprav preko NetFlow protokola zbira in shranjuje podatke. Programska oprema tako omogoča vpogled v posamezne povezovave, kot so: izvor in cilj internetnih naslovov, število vmesnikov, obseg prometa v bajtih, paketih in analizo pretoka podatkov, informacije o QoS in ostale podrobnosti.

Abstract

The presentation describes network monitoring solutions used in the Academic Network of Serbia – AMRES, which consist of two in-house developed web-based tools. ICmyNet.IMS is an advanced network information and monitoring system, which aims to discover, collect and provide all relevant networking information. It performs both active and passive monitoring, giving reliable and up-to-date status information regarding the network infrastructure, services and network devices. On the other hand, ICmyNet.Flow software performs a detailed traffic analysis, which collects and stores data exported from network devices, using the NetFlow protocol. The software gives valuable information about all individual traffic connections, such as source and destination host addresses and port numbers, traffic volume in bytes, packets, and flows, QoS information and other details.